200300035

THE UNHED STATES OF AVIERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

NASH Research Youndation

DECEMP, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SPLLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN RODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY DECITION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL BE SOLD BY VARIETY NAME ONLY AS A OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF TS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

WHEAT, DURUM

'Pierce'

In Testimonn Macrost, I have hereunto set my hand and caused the seal of the Hant Barista Frotestian Office to be affixed at the City of Washington, D.C. this twenty ninth day of April, in the year two thousand three.

Bul M Jakul

Commissioner

Plant Variety Protection Office

Saricultural Marketina Service

Cinhareman Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

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Triticum Turgidum L. var. durum var. du	(701) 231-8159	(701) 231-847	74	elias.el	ias@ndsu.i	nodak.edu	Durum	wheat		
Triticum Turgidum L. var. durum var. du	15. GENUS AND SPECIES NAME OF CROP			16. FAMIL	Y NAME (Botanic	al)	17. IS THE	VARIETY A FIRST GENERATION		
Exhibit A. Origin and Breeding History of the Variety b.	<u>Triticum Turgidum</u> L. var.	<u>durum</u>		Grami	mineae ☐ YES ☑ NO					
YES NOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.) 24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER SIGNATURE OF OWNER CAPACITY OR TITLE EXECUTIVE Director NDSU Research Foundation DATE 11/14/02 CAPACITY OR TITLE CAPACITY OR TITLE EXECUTIVE Director NDSU Research Foundation	a. Exhibit A. Origin and Breeding b. Exhibit B. Statement of Distinct c. Exhibit C. Objective Description d. Exhibit D. Additional Description e. Exhibit E. Statement of the Bas f. Voucher Sample (2,500 viable uperlication that tissue culture wire pository)	History of the Variety mess of Variety n of the Variety (Optional) is of the Owner's Ownersi intreated seeds or, for tub il be deposited and maint-	hip er propagated varieties, ained in an approved pui		20. DOES THE C VARIETY BE IF YES, WHICE 21. DOES THE C VARIETY BE IF YES, SPEC NUMBER 1,2	SEED? See Section 83(a) of IES (If "yes", enswer items 20 and 21 below) WARE SPECIFY THAT SEED (IMITED AS TO NUMBER OF (IMITE	OF THIS CLASSES? ATION OF THIS GENERATION ON	NO (If "no", go to item 22) YES NO REGISTERED CERTIFIED NO REGISTERED CERTIFIED REGISTERED CERTIFIED		
for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF OWNER NAME (Please print or type) NAME (Please print or type) Date Executive Director NDSU Research Foundation DATE 11/14/02 CAPACITY OR TITLE Executive Director NDSU Research Foundation	YES IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCUIT	NO OF FIRST SALE, DISPO	OSITION, TRANSFER, C s space indicated on reve	OR USE erse.)	IF YES, PLEA REFERENCE	'ES SE GIVE COUNTRY, DATE OF NUMBER. <i>(Please use space ir</i>	FILING OR IS ndicated on re	NO SUANCE AND ASSIGNED verse.)		
NAME (Please print or type) Dale Zetocha CAPACITY OR TITLE Executive Director NDSU Research Foundation NAME (Please print or type) CAPACITY OR TITLE DATE 11/14/02	for a tuber propagated variety a tissue culture. The undersigned owner(s) is(are) the owner and is entitled to protection under the provision.	re will be deposited in a r of this sexually reproduc sions of Section 42 of the	public repository and ma ced or tuber propagated Plant Variety Protection	sintained for t plant variety, Act.	the duration of the and believe(s) the	certificate.	_	-		
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2T. 470 (07.01) designed by the Plant Variotic Protection Office with Ward Designed 0.0. Designed by the Plant Variotic Protection Office with Ward Designed 1.0. Designed	Executive Director NDSU Research Foundation			2	CAPACITY OR TI	rle		DATE		

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
USA named and released as a cultivar June 21, 2001

Seed first distributed to ND County Crop Improvement March 27, 2002

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in ell its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whilten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfect 9.0. Replaces STD-470 (04-01) which is obsolete.

EXHIBIT A - ORIGIN AND BREEDING HISTORY

'Pierce'

Fall 1990

Original cross was made at North Dakota State University (NDSU) greenhouse.

Pedigree - D86117/D88289

D86117 - Monroe/D87209

D87209 - D74111/Cando

D874111 - W85GH-285/D804

D804 - D77204/D7618

D77204 - D7224/Ward

D7224 - D5988/D5962//Ward

D5988 - Ld393/Yuma2

D5962 - Ld398//Ld357/Stweart464-Ld357

D7618 - D7233/Edmore

D7233 - D6515/Ward

D6515 - Ld393/Yuma2//(Ld98/Ld357-Stweart464)

D88289 - D8189/D81141

D8189 - D68111/Rugby//Wrad/3/Vic

D68111 - D65150/Leeds

D65150 - Pi/TM//2*Tc/3/ZB/Wells

D81141 - D72114/Edmore//D781

D72114 - D65150/leeds//Ward

D781 - D7233/Edmore//D68112/Ward

D7233 - D6515/Ward

D6515 - Ld393/Yuma2//(Ld98/Ld357-

Stweart464)

D68112 - D65150/Leeds

D65150 - Pi/TM//2*Tc/3/ZB/Wells

Spring 1991

F₁ plants, NDSU greenhouse.

Summer 1991

F₂ plants, NDSU research land.

Summer 1992

F, head rows, NDSU research land.

Summer 1993

F₄ head rows, NDSU greenhouse.

Summer 1994

F₅ head rows, NDSU research land.

Summer 1995	F ₆ preliminary yield trail, two locations, NDSU research land. Experimental line designation - D941038.
Summer 1996	F ₇ Advanced yield trial, two locations, NDSU research land.
Summer 1997	F ₈ Elite yield trial, three locations, NDSU research land.
Summer 1998	F ₉ Uniform Regional Durum Nursery, 13 locations, North Dakota, South Dakota, Minnesota, Montana, and Canada.
Summer 1999	F_{10} Uniform Regional Durum Nursery, 13 locations, North Dakota, South Dakota, Minnesota, Montana, and Canada.
Summer 2000	F_{11} Uniform Regional Durum Nursery, 13 locations, North Dakota, South Dakota, Minnesota, Montana, and Canada.
Summer 2000	Seed increase by Seedstocks Project.
Summer 2001	Second seed increase by Seedstocks Project
June 1, 2001	D941038 was released as a named cultivar, Pierce.
March 27, 2002	First sale of Pierce.

Pierce was observed for seven generations from 1994 to 2000 and was shown to be stable and uniform. Pierce has been rogued at the F_5 and subsequent generations. The frequency of rogued plants in each generation was less than 1/1000 plants. No variants were found in the variety Pierce.

The pedigree breeding method was used to develop Pierce. In early generations F_2 . F_4 high heritable traits such as plant height, maturity, and disease resistance were selected. Starting at F_5 generation, selection criteria also included grain yield, test weight, kernel weight, and pasta quality traits (i.e., protein content, gluten strength, milling extraction, spaghetti color, cooking quality, etc.). Based on data from multiple locations and years Pierce was selected for its high yield, test weight and protein content, and gluten strength.

EXHIBIT B - NOVELTY STATEMENT

To my knowledge, Pierce most nearly resembles Lebsock durum wheat. Pierce and Lebsock durum wheat can be unambiguously differentiated at the molecular level by using microsatellite loci according to Röder et al (1988) Figure 1. DNA fragments analysis was carried out on 6% denaturing polymacrilamide gel using Promega (Madison, WI) DNA silver staining system. The procedure was repeated twice to confirm results.

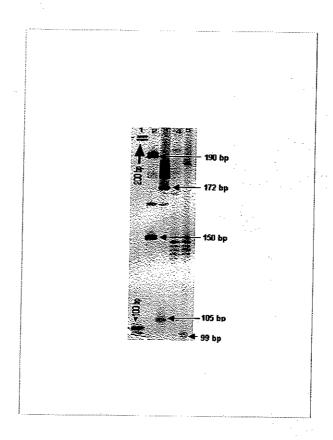


Figure 1. Microsattlite analysis to differentiate Pierce from Lebsock. Lane 1 has the 100 bp ladder marker. Lanes 2 and 3 are for one locus, and lanes 4 and 5 for another. Using the microsattlete locus Xgwm136, Pierce (lane 2) differs from lebsock (lane 3) by a ~ 190 bp band and a ~ 150 bp band. Lebsock has a ~ 172 bp band and 105 ~ bp that Pierce lacks. Using the microsatellite Xgwm626, Pierce (lane 4) lacks a ~ 99 pb band present in Lebsock (lane 5).

Reference.

Röder, M.S., V. Korzum, K. Wendehake, J. Plashke, M. Tixier, P. Leroy, and M.W. Ganal. 1998. A maicrosatellite of wheat. Genetics 149:207-2023.

instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

Page 1 of 6

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (Triticum spp.)

NAME OF APPLICANT(S) NDSU Research Foundation	•		FOR OFFICIAL USE C	NLY	·
	· · · · · · · · · · · · · · · · · · ·		PVPO NUMBÜR 0	0300	035
ADDRESS (Street and No. or RD No., City, State, and Zip Code) NDSU Research Foundation 1735 NDSU Research Park Drive PO Box 5002			variety name Pierce		~ ~ ~
Fargo, ND 58105-5002		,	TEMPORARY OR EXE D941038	PERIMENTAL DESI	GNATION
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place Place a zero in the first box (e.g. 0 9 9 or 0 9) when nur minimum of 100 plants. Comparative data should be determined be used to determine plant colors; designate system used:	mber is either 99 or l from varieties enter	less or 9 or less respectively. De ed in the same trial. Royal Hort	ata for quantitative p ticultural Society or	lant characters shany recognized co	ould be based on a blor standard may
	Please answer	all questions for your variety; la	ack of response may	delay progress of	your application.
1. KIND:	2.	VERNALIZATION:			
2 1=Common 2=Durum 3=Club 4=Other (SPECIFY):	[1	1=Spring 2=Winter 3=Other (SPECI	FY) :		
3. COLEOPTILE ANTHOCYANIN:		TO WELL THE TOTAL AND CO			
5. COLEOFTILE ANTHOCYANIN:	4.	JUVENILE PLANT G	ROWTH:		- · · · · · · · · · · · · · · · · · · ·
1 = Absent 2 = Present	2	1 = Prostrate	2 = Semi-erect	3 = Erect	
5. PLANT COLOR (boot stage):	6.	FLAG LEAF (boot st	age):		
1 = Yellow-Green 2 = Green 3 = Blue-Green	2	1 = Erect 2 = Recurved			
3 - Diuc-Green	1	1 = Not Twisted 2 = Twisted			
	1	1 = Wax Absent 2 = Wax Present			
7. EAR EMERGENCE:			2	·	· ·
0 6 2 Number of Days (Average)					
0 1 Number of Days Earlier Than	Mountrail		·		*
Same as	Lebsock		·		*
0 1 Number of Days Later Than_	Munich		<u> </u>		<u>*</u>
Cett 470 ((03 02))		* Relative to a PVPO-A		al Variety Grov	عا ا
S&T-470-6 (03-02) designed by the Plant Variety Protection Office v	with WordPerfect 9.0	J. Keplaces S&T-470-6 (02-99)) which is obsolete.	and the second	Pagelnf

2	0	0	3	0	0	0	3	
---	---	---	---	---	---	---	---	--

o. ANIMUM COLOR	8.	ANTHER	COLOR:
-----------------	----	--------	--------

1	1 = Yellow
لــــا	2 = Purple

9.	PLANT HEIGHT	(from soil to to	p of head,	excluding awns):

0	9	2

cm (Average)

3

Lebsock cm Taller Than

> Mountrail Same as

0 2

Ben cm Shorter Than

10. STEM:

A. ANTHOCYANIN

1= Absent 1 2 = Present

B. WAXY BLOOM

1 = Absent

2 = Present

D. INTERNODE

1 = Hollow

2 = Semi-solid 3 = Solid

Number of Nodes

E. PEDUNCLE

1 = Erect

2 = Recurved

3 = Semi-erect

2

cm Length

C. HAIRINESS

(last internode of rachis)

1 = Absent

2 = Present

F. AURICLE-

Anthocyanin

1 = Absent

2 = Present

Hair 1

1 = Absent2 = Present

11. HEAD (at Maturity):

A. DENSITY

1 = Lax1

2 = Middense (Laxidense)

3 = Dense

B. SHAPE

1 = Tapering 2 = Strap

3 = Clavate

oblong 4 = Other (SPECIFY):

C. CURVATURE

1 = Erect2

2 = Inclined

3 = Recurved

D. AWNEDNESS

1 = Awnless

2 = Apically Awnletted

3 = Awnletted

4 = Awned

12. GLUMES (at Maturity):	e.		,					
A. COLOR		E. BEAK WIDTH	20	03	10	0 (13	5
1 = White 2 = Tan 3 = Other (SPECIFY):		2 1 = Narrow 2 = Medium 3 = Wide						1
B. SHOULDER		F. GLUME LENGTH						
5 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate 7 = Other (SPECIFY):		1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)						
C. SHOULDER WIDTH		G. WIDTH		•				
1 = Narrow 2 = Medium 3 = Wide		3 1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)	• •		•			_
D. BEAK				•	÷			
1 = Obtuse 2 = Acute 3 = Acuminate								
13. SEED	· · · · · · · · · · · · · · · · · · ·							
A. SHAPE		E. COLOR						٠
3		1 = White 2 = Amber 3 = Red 4 = Other (SPECIFY):	-		·			
B. CHEEK		F. TEXTURE						
1 = Rounded 2 = Angular	3	1 = Hard 2 = Soft 3 = Other (SPECIFY):						-
C. BRUSH		G. PHENOL REACTION (see in	structio	ns):				
1 = Short 2 = Medium 3 = Long	1 = Not Collared 2 = Collared	1 , 1	4 = Dar 5 = Blac		wn			
D. CREASE		H. SEED WEIGHT						•
1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Ker	nel	3 1 g/1000 seed (Whole nu	mber or	ıly)				1
2 Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel		I. GERM SIZE 3 1 = Small 2 = Midsize 3 = Large						

· · · · · · · ·						Exhibit C (Whe
14.	Disease: (0=Not Tested;	1=Susceptible;	2=Resistant;	3=Intermediate;	4=Tolera2t)0 0 3	00035
	PLEA	SE INDICATE T	HE SPECIFIC	RACE OR STRAIN	TESTED	· · · .
2	Stem Rust (Puccinia graminis Pgt-QCCJ,-QTHJ,-RTQQ,-		PHJ 2		nia recondita f. sp. trit. the most common	<i>ici)</i> race in
0	Stripe Rust (Puccinia striiforn	nis)	0	Loose Smut (Ustil	ago tritici)	•
3	Tan Spot <i>(Pyrenophora tritici</i> - Pti2 (Racel)	-repentis)	0	Flag Smut (Urocy,	stis agropyri)	
0	Halo Spot (Selenophoma dono	acis)	0	Common Bunt (T	illetia tritici or T. laev	is)
0	Septoria nodorum (Glume Blo	tch)	0	Dwarf Bunt (Tille	tia controversa)	·
0	Septoria avenae (Speckled Lea	of Disease)	0	Karnal Bunt (Tille	etia indica)	
0	Septoria tritici (Speckled Leaf	Blotch)	0	Powdery Mildew	(Erysiphe graminis f.	sp. <i>tritici)</i>
3	Scab (<i>Fusarium</i> spp.) Natural infection.		0	"Snow Molds"		
0	"Black Point" (Kernel Smudge	e)	0	Common Root Rot Bipolaris spp.)	(Fusarium, Cochlioi	oolus and
0	Barley Yellow Dwarf Virus (B	YDV)	0	Rhizoctonia Root I	Rot (Rhizoctonia sola	ni)
0	Soilborne Mosaic Virus (SBM	v)	0	Black Chaff (Xanta	homonas campestris _I	ov. translucens)
0	Wheat Yellow (Spindle Streak)	Mosaic Virus	0	Bacterial Leaf Blig syringae)	ht (Pseudomonas syr	ingae pv.
0	Wheat Streak Mosaic Virus (V	VSMV)		Other (SPECIFY)		
	Other (SPECIFY)			Other (SPECIFY)		
	Other (SPECIFY)	-		Other (SPECIFY)		
	Other (SPECIFY)	· · · · · · · · · · · · · · · · · · ·		Other (SPECIFY)	· .	
15. IN	SECT: (0=Not Tested;	l=Susceptible;	2=Resistant;	3=Intermediate;	4=Tolerant)	
•		PLEASE SPE	CIFY BIOTYPI	E (where needed)		
0	Hessian Fly (Mayetiola destruct			Other (SPECIFY)	· · · · · · · · · · · · · · · · · · ·	
0	Stem Sawfly (Cephus spp.)			Other (SPECIFY)		
0	Cereal Leaf Beetle (Oulema me	lanopa)		Other (SPECIFY)		· · · · · · · · · · · · · · · · · · ·
0	Russian Aphid (Diuraphis noxi	ia)		Other (SPECIFY)		

* •	· · · · · · · · · · · · · · · · · · ·					The second secon	Exhibit C (V	Wheat)
15.	INSECT: Continu	ued (0=Not Tested;	1=Susceptible;	2=Resistant	t; 3=Intermediate;	4=Tolerant)		
-		·	PLEASE SPECIFY	BIOTYPE (where needed)	00300	035	
0	Greenbug (Sa	chizaphis graminum)		0	ther (SPECIFY)			·
0	Aphids			O	ther (SPECIFY)			

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

20030003

EXHIBIT D - Quality Data

Mean quality traits of durum cultivars grown in the drill strips at the Research Extension Centers in North dakota, 1998-2000.

	Firm	g cm	6.5	0.9	9.9	6.2	9	9.9	6.4	6.1	6.5	99	5.5	6.9	6.4
Cook	loss	%	9.9	6.3	6.4	6.4	6.3	6.4	6.4	6.7	6.3	99	6.4	6.3	6.4
Cook		б	30.1	30.9	30.2	30.4	30.2	30.3	30.6	30.3	30.3	29.9	31.3	30.6	30.4
Pasta	color		9.5	9.1	9.2	9.4	9.6	9.3	9.7	6.9	4.0	0.1	9.2	9.4	9.4
	Mixo		7	5	9	Ŋ	7	9	Ŋ	2	ဖ	/	· ന	9	9
	Specks	#/10 sq in	14	12	12	13	12	12	-	12	12	13	15	15	12
Semo	ash	%	0.68	0.67	0.69	0.67	0.70	0.69	0.68	0.69	99.0	0.67	0.70	0.69	0.68
Semo	ext	%	61.1	61.8	62.7	62.6	62.4	61.9	62.1	61.9	62.9	61.4	62.7	61.6	62.3
Total	ext	%	67.0	68.1	68.8	68.9	68.8	68.4	68.6	68.7	69.2	68.0	68.9	68.1	68.7
Semo	prot	%	13.1	13.1	13.7	13.0	13.8	13.4	13.4	12.9	13.2	13.4	13.6	14.1	13.3
Wheat	prot	%	14.1	13.9	14.6	13.9	14.7	14.4	14.3	13.9	14.2	14.2	14.5	15.1	14.2
-	Sed	шш	20	42	45	4	20	43	36	43	41	55	24	41	43
Fall	2	sec	382	403	388	407	397	385	387	415	393	393	376	451	397
	Sm	%	4	4	က	က	4	က	2	5	2	က	4	က	4
	S)	%	-56	26	7	29	61	72	22	51	49	69	61	63	09
1000	₹	ත .	36.9	39.2	42.0	39.3	38.8	41.9	36.8	36.3	37.8	40.6	38.3	37.9	39.0
ζ <u>i</u>	kern	%	92	95	94	9	97	95	93	88	92	92	94	92	92
Test	>	ng/q	8.09	60.1	8.09	61.1	60.2	59.3	59.5	59.3	60.1	58.7	60.1	59.5	0.09
: 	STD			S	ഗ	ഗ	တ	တ	တ	တ				_	ndards
•	Variety		Pierce	Mountrail	Ben	Lebsock	Maier	Monroe	Munich	Plaza	Renville	Belzer	Rugby	ACAvonlea	Avg. of standards

Number of locations/years = 18 ACAvonlea number of locations/years = 14

Data provided by Dr. Frank Manthey Durum Wheat Quality and Pasta Processing Laboratory Department of Cereal Science

REPRODUCE LOCALLY, Include form number and edition date on al	féproductions.	ORM APPROVED - OMB No. 0581-0059
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).	
1. NAME OF APPLICANT(5)	2 TEMPORARY DESIGNATION	3 VARIETY NAME
NDSU Research Foundation	OR EXPERIMENTAL NUMBER	
	D941038	'Pierce'
4. ADDRESS (SHANLAND NO., OF RE C. No., Cay, State, and ZIP, and Country)	5. TELEPHONE (helbody area code)	S. FAX (metade area code)
C/O Executive Director	(701) 231-8931	
1735 NDSU Research Park Drive		(701) 231-6661
PO Box 5002	7. PVPO NUMBER O A A	1 T A A A T FR
Fargo, ND 58105-5002	200	300035
8. Does the applicant own all rights to the variety? Mark an "X" in the 9. Is the applicant (individual or company) a U.S. National or a U.S. I		∠ NO
10. Is the applicant the original owner? YES NO a. If the original rights to variety were owned by individual(s), is a YES NO	(are) the original owner(s) a U.S. Nationa	-
b. If the original rights to variety were owned by a company(ies)		sed company?
11. Additional explanation on ownership (If needed, use the reverse See additional Exhibit E Statement of the Basis of the	•	in the application.
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
 If the rights to the variety are owned by the original breeder, that penaltional of a country which affords similar protection to nationals or 	erson must be a U.S. national, national of f the U.S. for the same genus and specio	of a UPOV member country, or es.
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.	yed the original breeder(s), the company country which affords similar protection to	must be U.S. based, owned by o nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.
The original breeder/owner may be the individual or company who dir Act for definitions.		
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055, response, including the time for reviewing the instructions, searching existing data sources, or	The time required to complete this information collect	lies la salissatad to

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EXHIBIT E - STATEMENT OF THE BASIS OF THE APPLICANT'S OWNERSHIP

Dr. Elias M. Elias, an employee of the North Dakota Agricultural Experiment Station and North Dakota State University, is a plant breeder who developed 'Pierce' the durum wheat cultivar for which Plant Variety Protection is hereby sought. The employee by agreement and because of the condition of the use of facilities and funds of the North Dakota Agricultural Experiment Station and North Dakota State University has assigned all ownership rights to 'Pierce' durum wheat to the North Dakota Agricultural Experiment Station and North Dakota State University.

North Dakota State University on behalf of the North Dakota Agricultural Experiment Station has assigned all ownership to the NDSU Research Foundation. The NDSU Research Foundation is a nonprofit corporation set up to own and manage the intellectual property of North Dakota State University.